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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/620,564	07/17/2003	Michael Beauerle	R 303356	9256
7590 09/23/2004			EXAMINER	
Walter Ottesen			HOANG, JOHNNY H	
Patent Attorney P.O. Box 4026			ART UNIT	PAPER NUMBER
	MD 20885-4026		3747	
			DATE MAILED: 09/23/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application/Control Number: 10/620,564

Art Unit: 3747

DETAILED ACTION

Inventorship

1. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1, 2, 9-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Mufford et al (US 5,771,476).

Regarding claim 1, the reference of Mufford et al discloses the air supply system, which includes the following subject matters:

modeling an air mass flow in said air supply system in dependence upon an rpm of said compressor and a pressure ratio of said compressor to obtain a modeled air mass flow (col. 4, line 59 through col. 5, line 10; col. 5, line 43 through col. 6, line 45; and col. 8, lines 41-50); and

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comparing said modeled air mass flow to a measured air mass flow measured by said air-mass measuring device (col. 5, lines 19-42; and col. 7, lines 37-52).

Regarding claims 2, and 9-12, as above discussions.

Regarding claim 13, as above discussions.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 3-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mufford et al.

Regarding claim 3, the reference of Mufford et al discloses the claimed invention. Furthermore, the reference of Mufford et al discloses the measuring and comparing the pressure in the air supply system (as above discussions).

However, the reference of Mufford et al does not disclose the step of measuring the pressure ratio when a bypass to at least one cylinder in open.

It would have been an obvious to one of ordinary skill in the art at the time the invention was made to have utilized the engine being operating with the at least one cylinder is open, since more information can be processed more precisely at a higher technology facility.

Regarding claim 4, as discussed in claim 3, the air supply of the engine must be including the exhaust gas recirculation valve (see fig. 6).

Regarding claim 5, the reference of Mufford et al further discloses an air control valve 700 (see fig. 6).

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Regarding claims 6-8, as above discussions.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's 6.

disclosure. The copies of U.S Patent are provided.

Karisson et al (US 6,041,593).

Any inquiry concerning this communication or earlier communications from the examiner 7.

should be directed to Johnny H. Hoang whose telephone number is (703) 308-2782. The

examiner can normally be reached on Monday - Thursday (7:00Am-5: 30Pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Henry Yuen can be reached on (703) 308-1946. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JHH

September 21, 2004

Johnny H. Hoang Examiner Art Unit 3747

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Wille R Welf D Willis R. Wolfe **Primary Examiner**

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